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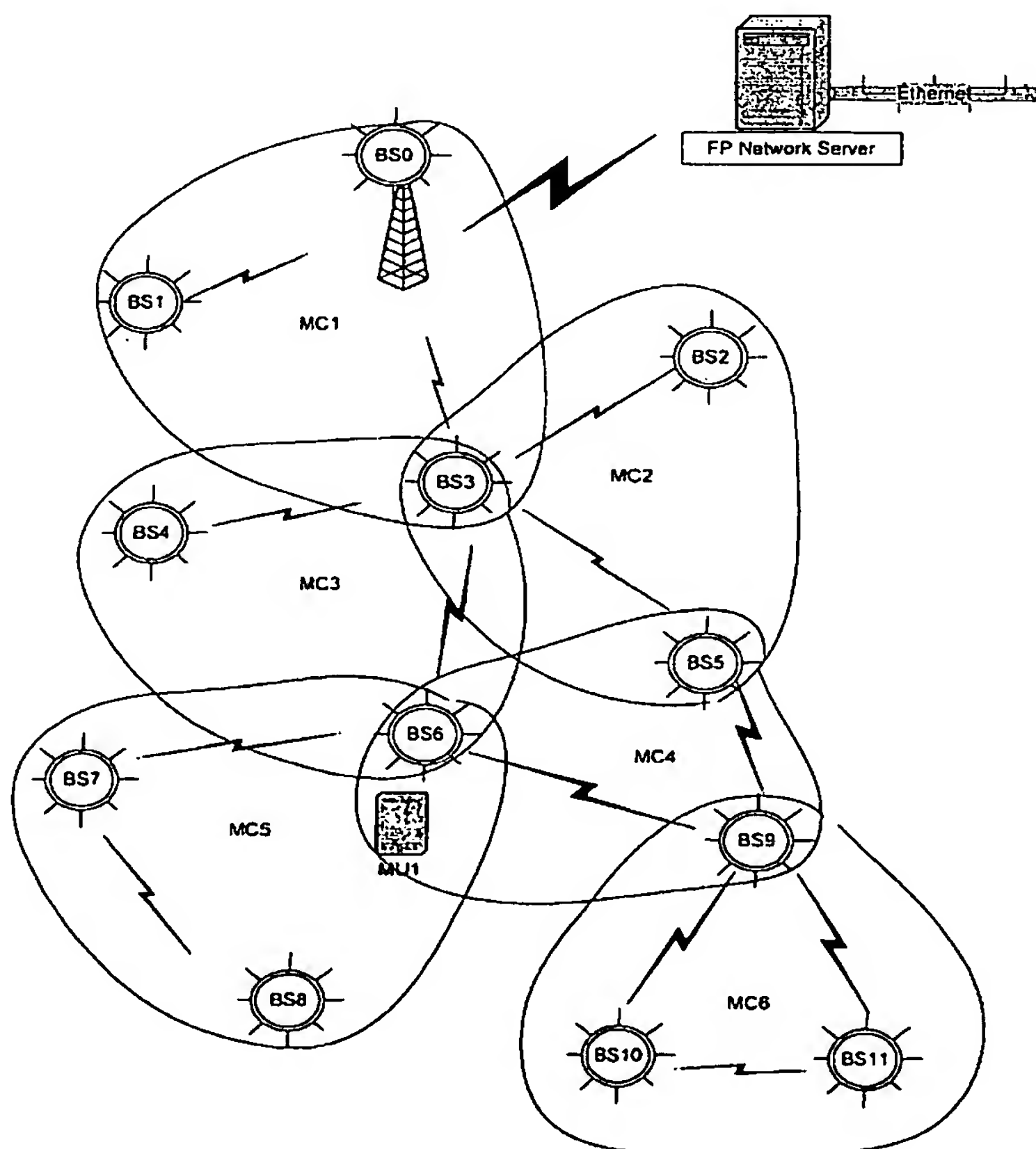
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(54) Title: **LOCATING SYSTEM UTILISING ADJUSTABLE TRANSMISSION POWER IN A MICRO-CELLULAR  
NETWORK**



(57) Abstract: A communications system and a method of wireless communication for mobile units (MU) within a facility having a central controller (FP server), a plurality of wireless base stations (BS1-BS11) having an adjustable transmission power. The base stations are distributed throughout the facility for wireless communication with the controller and the mobile units (MU). The controller (FP server) configures the base stations (BS1-BS11) into a plurality of micro-cells (MC1-MC6) each including at least two base stations (BS1-BS11) by adjusting the wireless transmission power of the base stations (BS1-BS11) such that at least one base station (BS1-BS11) in each micro-cell (MC1-MC6) is a member of another micro-cell (MC1-MC6). At least one base station is able to communicate with the central controller (FP server) and all mobile units (MU) within a selected area of the facility are able to communicate with at least one base station (BS1-BS11).



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